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## C-A OPERATIONS PROCEDURES MANUAL

### 12.45 TR-2 40 Degree Line Startup

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#### Hand Processed Changes

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Approved: \_\_\_\_\_ ***Signature on File*** \_\_\_\_\_  
Collider-Accelerator Department Chairman Date

C. Carlson

## 12.45 TR-2 40 Degree Line Startup

### 1. **Purpose**

The purpose of this procedure is to define the sequence of activities required to set up the TR-2 40 degree line.

### 2. **Responsibilities**

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

### 3. **Prerequisites**

The person or persons executing this procedure shall have all formal training required of a TVDG Operator.

### 4. **Precautions**

None

### 5. **Procedure**

5.1 Perform the steps outlined in [C-A-OPM 12.36 "Setup For Target Room Operation"](#).

5.2 Target Room 2 - 40 Degree West - Ortec Scattering Chamber Setup

5.2.1 Put focused beam on wall cup, record beam current on run sheet.

5.2.2 Center beam on mobile cup in chamber, record beam current on run sheet.

5.2.3 Adjust horizontal and vertical sweep frequencies for a non-coherent raster as seen on the oscilloscope connected to the sweeper feedback coils. Record on run sheet, the raster on Polaroid film using time exposure.

5.2.4 With horizontal sweep amplitude at 0, adjust vertical sweep amplitude for 1/2 the beam current on the center cup. Record on run sheet, the vertical sweep amplitude.

5.2.5 With vertical sweep amplitude at 0, adjust horizontal sweep amplitude for 1/2 the beam current on the center cup. Record on run sheet, the horizontal sweep amplitude.

5.2.6 Set vertical sweep amplitude to the value determined in step 5.2.4.

5.2.7 Read the annular cup, calculate, and record on run sheet, the ratio between the center and annular cup.

**6. Documentation**

None

**7. References**

7.1 [C-A-OPM 12.36 “Setup for Target Room Operation”](#).

**8. Attachments**

None